

Certificate

26-EL111-0181

Mr. Danylo Podopryhora attended the interactive seminar:

FUNDAMENTALS OF ELECTRICAL ENGINEERING, EL111

from 04 to 07 August 2026

The following topics were dealt with and successfully completed:

Electric current.

Electrical quantities: voltage, current, resistance.

Ohm's law.

Chains with sequentially and in parallel connected elements.

Determination of the main characteristics of circuits constructed by parallel and sequential circuits.

direct and alternating current, current characteristics.

Transformers: design, principle of operation.

Use of diodes, rectifier structures.

Three-phase system is connected by the scheme "triangle" and "star".

Asynchronous 3-phase motors: characteristics, connection circuits and startup features. Implementation of the connection scheme "star-triangle".

Symbols of electrical elements.

The order of reading of principle electric circuits.

Contactors: motor control circuits using contactors.

Standards for the classification of electrical cables

Sensors

Requirements for electrical connections: types of electrical connections.

Safety standards in accordance with ISO requirements.

Safety precautions against electric shock.

Safety precautions against fire.

Grounding: grounding rules, grounding elements.



Didactic Manager

DP "Festo"

Ievgen Ryzhenko

Certificate

26-EL111-0182

Mr. Yevgen Storchak attended the interactive seminar:

FUNDAMENTALS OF ELECTRICAL ENGINEERING, EL111

from 04 to 07 August 2026

The following topics were dealt with and successfully completed:

Electric current.

Electrical quantities: voltage, current, resistance.

Ohm's law.

Chains with sequentially and in parallel connected elements.

Determination of the main characteristics of circuits constructed by parallel and sequential circuits.

direct and alternating current, current characteristics.

Transformers: design, principle of operation.

Use of diodes, rectifier structures.

Three-phase system is connected by the scheme "triangle" and "star".

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Symbols of electrical elements.

The order of reading of principle electric circuits.

Contactors: motor control circuits using contactors.

Standards for the classification of electrical cables

Sensors

Requirements for electrical connections: types of electrical connections.

Safety standards in accordance with ISO requirements.

Safety precautions against electric shock.

Safety precautions against fire.

Grounding: grounding rules, grounding elements.



Didactic Manager

DP "Festo"

Ievgen Ryzhenko

Certificate

26-EL111-0183

Mr. Bohdan Myhailov attended the interactive seminar:

FUNDAMENTALS OF ELECTRICAL ENGINEERING, EL111

from 04 to 07 August 2026

The following topics were dealt with and successfully completed:

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Electrical quantities: voltage, current, resistance.

Ohm's law.

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direct and alternating current, current characteristics.

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Three-phase system is connected by the scheme "triangle" and "star".

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Symbols of electrical elements.

The order of reading of principle electric circuits.

Contactors: motor control circuits using contactors.

Standards for the classification of electrical cables

Sensors

Requirements for electrical connections: types of electrical connections.

Safety standards in accordance with ISO requirements.

Safety precautions against electric shock.

Safety precautions against fire.

Grounding: grounding rules, grounding elements.



Didactic Manager

DP "Festo"

Ievgen Ryzhenko

Certificate

26-EL111-0184

Mr. Bohdan Golovchenko attended the interactive seminar:

FUNDAMENTALS OF ELECTRICAL ENGINEERING, EL111

from 04 to 07 August 2026

The following topics were dealt with and successfully completed:

Electric current.

Electrical quantities: voltage, current, resistance.

Ohm's law.

Chains with sequentially and in parallel connected elements.

Determination of the main characteristics of circuits constructed by parallel and sequential circuits.

direct and alternating current, current characteristics.

Transformers: design, principle of operation.

Use of diodes, rectifier structures.

Three-phase system is connected by the scheme "triangle" and "star".

Asynchronous 3-phase motors: characteristics, connection circuits and startup features. Implementation of the connection scheme "star-triangle".

Symbols of electrical elements.

The order of reading of principle electric circuits.

Contactors: motor control circuits using contactors.

Standards for the classification of electrical cables

Sensors

Requirements for electrical connections: types of electrical connections.

Safety standards in accordance with ISO requirements.

Safety precautions against electric shock.

Safety precautions against fire.

Grounding: grounding rules, grounding elements.



Didactic Manager

DP "Festo"

levgen Ryzhenko

Certificate

26-EL111-0185

Mr. Dmytro Veis attended the interactive seminar:

FUNDAMENTALS OF ELECTRICAL ENGINEERING, EL111

from 04 to 07 August 2026

The following topics were dealt with and successfully completed:

Electric current.

Electrical quantities: voltage, current, resistance.

Ohm's law.

Chains with sequentially and in parallel connected elements.

Determination of the main characteristics of circuits constructed by parallel and sequential circuits.

direct and alternating current, current characteristics.

Transformers: design, principle of operation.

Use of diodes, rectifier structures.

Three-phase system is connected by the scheme "triangle" and "star".

Asynchronous 3-phase motors: characteristics, connection circuits and startup features. Implementation of the connection scheme "star-triangle".

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Contactors: motor control circuits using contactors.

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Grounding: grounding rules, grounding elements.



Didactic Manager

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Ievgen Ryzhenko